

#### ABSTRACT OF THE DISCLOSURE

The invention concerns a system for thermal treatment of a domestic water supply pipe containing stagnant water to eliminate contaminating agents, and in particular legionnellae, comprising a pipe (1) having over its entire length at least a continuous conductive layer made of an ohmic conductor material of the electric current, a connecting element (5) made of a conductor material of the electric current connecting two portions (A, B) of said conductive layer so as to form a conductor closed loop (ABA), and a device for generating a variable magnetic flux throughout said closed loop.